C L Paul Thomas

List of Publications by Year
in descending order

38 papers	1,304 citations	361413 20 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	1616 citing authors

#	Article	IF	Citations
1	Ion mobility spectrometry: a review. Part 1. Structural analysis by mobility measurement. Analyst, The, 2004, 129, 984.	3.5	207
2	Diagnosis of COVID-19 by analysis of breath with gas chromatography-ion mobility spectrometry - a feasibility study. EClinicalMedicine, 2020, 29-30, 100609.	7.1	153
3	Non-invasive metabolomic analysis of breath using differential mobility spectrometry in patients with chronic obstructive pulmonary disease and healthy smokers. Analyst, The, 2010, 135, 315.	3.5	119
4	Chemical standards for ion mobility spectrometry: a review. International Journal for Ion Mobility Spectrometry, 2009, 12, 1-14.	1.4	84
5	Novel noninvasive identification of biomarkers by analytical profiling of chronic wounds using volatile organic compounds. Wound Repair and Regeneration, 2010, 18, 391-400.	3.0	78
6	Optimisation of secondary electrospray ionisation (SESI) for the trace determination of gas-phase volatile organic compounds. Analyst, The, 2010, 135, 306.	3.5	48
7	Detection of Metabolites of Trapped Humans Using Ion Mobility Spectrometry Coupled with Gas Chromatography. Analytical Chemistry, 2013, 85, 2135-2142.	6.5	47
8	Breath analysis by two-dimensional gas chromatography with dual flame ionisation and mass spectrometric detection â€“ Method optimisation and integration within a large-scale clinical study. Journal of Chromatography A, 2019, 1594, 160-172.	3.7	46
9	How long may a breath sample be stored for atâ€‰â€‰â€™80 Â°C? A study of the stability of volatile organic compounds trapped onto a mixed Tenax:Carbograph trap adsorbent bed from exhaled breath. Journal of Breath Research, 2016, 10, 026011.	3.0	44
10	Discrimination of bacteria by rapid sensing their metabolic volatiles using an aspiration-type ion mobility spectrometer (a-IMS) and gas chromatography-mass spectrometry GC-MS. Analytica Chimica Acta, 2017, 982, 209-217.	5.4	41
11	Metabolic profiling of human saliva before and after induced physiological stress by ultra-high performance liquid chromatographyâ€“ion mobilityâ€“mass spectrometry. Metabolomics, 2013, 9, 1192-1201.	3.0	40
12	Discrimination of bacteria using pyrolysis-gas chromatography-differential mobility spectrometry (Py-GC-DMS) and chemometrics. Analyst, The, 2009, 134, 557-563.	3.5	37
13	The response of a membrane inlet ion mobility spectrometer to chlorine and the effect of water contamination of the drying media on ion mobility spectrometric responses to chlorine. Analyst, The, 2001, 126, 1539-1544.	3.5	31
14	A workflow for the metabolomic/metabonomic investigation of exhaled breath using thermal desorption GCâ€“MS. Bioanalysis, 2012, 4, 2227-2237.	1.5	27
15	Analysis of human breath samples using a modified thermal desorption: gas chromatography electrospray ionization interface. Journal of Breath Research, 2014, 8, 037105.	3.0	27
16	High throughput volatile fatty acid skin metabolite profiling by thermal desorption secondary electrospray ionisation mass spectrometry. Analyst, The, 2014, 139, 4279-4286.	3.5	26
17	VOCCluster: Untargeted Metabolomics Feature Clustering Approach for Clinical Breath Gas Chromatography/Mass Spectrometry Data. Analytical Chemistry, 2020, 92, 2937-2945.	6.5	26
18	Optimising cell temperature and dispersion field strength for the screening for putrescine and cadaverine with thermal desorption-gas chromatographyâ€“differential mobility spectrometry. Analytica Chimica Acta, 2008, 611, 226-232.	5.4	25

#	Article	IF	Citations
19	Sampling and characterisation of volatile organic compound profiles in human saliva using a polydimethylsiloxane coupon placed within the oral cavity. Analyst, The, 2012, 137, 3627.	3.5	24
20	Spatial variations in the microbial community structure and diversity of the human foot is associated with the production of odorous volatiles. FEMS Microbiology Ecology, 2015, 91, 1-11.	2.7	21
21	Determination of Formaldehyde by Conversion to Hexahydrooxazolo[3,4-a]pyridine in a Denuder Tube With Recovery by Thermal Desorption, and Analysis by Gas Chromatographyâ€“Mass Spectrometryâ€. Analyst, The, 1997, 122, 1471-1476.	3.5	16
22	Dynamic Vapor Generator That Simulates Transient Odor Emissions of Victims Entrapped in the Voids of Collapsed Buildings. Analytical Chemistry, 2014, 86, 3887-3894.	6.5	16
23	Characterisation of the phosgene response of a membrane inlet 63Ni ion mobility spectrometer. Analyst, The, 2002, 127, 1211-1217.	3.5	15
24	Control of dopants/modifiers in differential mobility spectrometry using a piezoelectric injector. Analyst, The, 2012, 137, 1458.	3.5	15
25	Programmable gate delayed ion mobility spectrometry-mass spectrometry: A study with low concentrations of dipropylene-glycol-monomethyl-ether in air. Analyst, The, 2005, 130, 1155.	3.5	13
26	The presumptive detection of benzene in water in the presence of phenol with an active membrane-UV photo-ionisation differential mobility spectrometer. Analyst, The, 2006, 131, 990.	3.5	13
27	Sensorsâ€™ array of aspiration ion mobility spectrometer as a tool for bacteria discrimination. Talanta, 2020, 206, 120233.	5.5	13
28	Sampling procedures for intrinsically valid volatile organic compound measurements. Analyst, The, 2000, 125, 825-832.	3.5	12
29	Rapid determination of alcohols in human saliva by gas chromatography differential mobility spectrometry following selective membrane extraction. International Journal for Ion Mobility Spectrometry, 2010, 13, 55-63.	1.4	8
30	Optimisation of piezoelectric injection of dopants and drift gas modifiers in transverse ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2010, 13, 149-155.	1.4	6
31	Voltammetric determination of airborne 2-chloronitrobenzene using a recirculating absorbent vapour sampler. Analyst, The, 1988, 113, 1799.	3.5	5
32	Effect of relative humidity on the determination of formaldehyde with the NIOSH 3500 method (chromatropic acid method). Analytical Communications, 1998, 35, 103-105.	2.2	5
33	Assessment of the Feasibility of the Use of Conductive Polymers in the Fabrication of Ion Mobility Spectrometers. Analytical Chemistry, 2011, 83, 2613-2621.	6.5	5
34	Breath collection protocol for SARs-CoV-2 testing in an ambulatory setting. Journal of Breath Research, 2022, , .	3.0	5
35	Fast and automated biomarker detection in breath samples with machine learning. PLoS ONE, 2022, 17, e0265399.	2.5	3
36	The utility of a standardised breath sampler in school age children within a real-world prospective study. Journal of Breath Research, 2022, 16, 027104.	3.0	2

#	Article	IF	Citations
37	Ion mobility spectrometry. , 2020, , 171-183.		1
38	The Determination of Formaldehyde using Thermal Desorption â€“ Ion Mobility Spectrometry. , 2001, , .		0